

Final Report

Laboratory Order ID 19J0229

Client Name:



Date Received: October 4, 2019 15:00

Date I ued October 9, 2019 16:43

Project Number: [none] Purchase Order: 64073

Submitted To:

Client Site I D

Shiloh Church Rd Site

Enclosed are the results of analyses for samples received by the laboratory on 10/04/2019 15:00. If you have any que tion concerning thi report, plea e feel free to contact the laboratory

Sincerely,



Technical Director

End Notes:

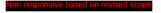
The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of

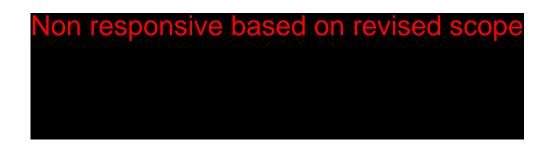












Final Report

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Non responsive based on revised scope

Date I ued

10/9/2019 16:43

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Shiloh Church Rd Site

Project Number

[none]

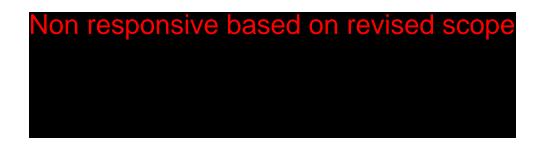
Purcha e Order 64073

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 19J0229

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-Grab	19J0229-01	Soil	10/04/2019 12:00	10/04/2019 15:00
E-Grab	19J0229-02	Soil	10/04/2019 12:00	10/04/2019 15:00

PCB results have been calculated based on dry weight.



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Laboratory Order ID: 19J0229

Analytical Results

Sample I.D. W-Grab Laboratory Sample ID: 19J0229-01

Grab Date/Time 10/04/2019 12:00

Field Residual CI: Field pH:

					Reporting		Sample Prep	Analysis		
Parameter	Parameter Samp ID Method Result		Qual	Limit	D.F.	Date/Time	Date/Time	Analyst		
Organochlorine Pesticides	s and PCBs	by GC/ECD							Non responsive	
PCB as Aroclor 1016	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57		
PCB as Aroclor 1221	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57		
PCB as Aroclor 1232	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57		
PCB as Aroclor 1242	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57		
PCB as Aroclor 1248	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57		
PCB as Aroclor 1254	01RE1	SW8082A	152 mg/kg dry		55.6	500	10/07/19 09:45	10/09/19 11:34		
PCB as Aroclor 1260	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57		
Surr: DCB	01	SW8082A	200 %	DS	30-105		10/07/19 09:45	10/07/19 21:57	-	
Surr: TCMX	01	SW8082A	75.0 %		30-105		10/07/19 09:45	10/07/19 21:57		
Wet Chemistry Analysis										
Percent Solids	01	SM18 2540G	89.3 %		0.10	1	10/08/19 14:20	10/08/19 14:20		



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19J0229-02

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[none]

Purchase Order:

64073

Laboratory Sample ID:

Laboratory Order ID: 19J0229

Analytical Results

Sample I.D. E-Grab

10/04/2019 12:00

Grab Date/Time
Field Residual CI:

Field pH:

					Reporting		Sample Prep	Analysis	
Parameter Samp ID Method		Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst	
Organochlorine Pesticides	and PCBs	by GC/ECD							Non responsi
PCB as Aroclor 1016	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1221	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1232	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1242	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1248	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1254	02RE1	SW8082A	324 mg/kg dry		112	1000	10/07/19 09:45	10/09/19 12:59	
PCB as Aroclor 1260	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
Surr: DCB	02	SW8082A	200 %	DS	30-105		10/07/19 09:45	10/07/19 22:16	
Surr: TCMX	02	SW8082A	100 %		30-105		10/07/19 09:45	10/07/19 22:16	
Wet Chemistry Analysis									
Percent Solids	02	SM18 2540G	88.9 %		0.10	1	10/08/19 14:20	10/08/19 14:20	



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- Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID	
Wet Chemistry Anal	ysis	Preparation Method:	No Prep Wet C	hem		
19J0229-01	10.0 g / 10.0 mL	SM18 2540G	BCJ0276	SCJ0247		
19J0229-02	10.0 g / 10.0 mL	SM18 2540G	BCJ0276	SCJ0247		
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID	
Organochlorine Pes	ticides and PCBs by GC/ECD	Preparation Method:	SW3550B			
19J0229-01	30.2 g / 5.00 mL	SW8082A	BCJ0217	SCJ0239	AI90153	
19J0229-01RE1	30.2 g / 5.00 mL	SW8082A	BCJ0217	SCJ0285	Al90099	
19J0229-02	30.2 g / 5.00 mL	SW8082A	BCJ0217	SCJ0239	AI90153	
19J0229-02RE1	30.2 g / 5.00 mL	SW8082A	BCJ0217	SCJ0285	AI90099	



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Source

[none]

%REC

RPD

Purchase Order: 64073

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water & Soil Laboratories, Inc.

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Allalyto	result	Littie	Office	LOVOI	rtosuit	701 CLO	Liiiito		Liiiii	Quai
Batch BCJ0217 - SW3550B										
Blank (BCJ0217-BLK1)				Prepared	d & Analyzed	d: 10/07/2	019			
PCB as Aroclor 1016	<0.100 mg/kg wet	0.100	mg/kg wet	•	,					
PCB as Aroclor 1221	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1232	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1242	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1248	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1254	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1260	<0.100 mg/kg wet	0.100	mg/kg wet							
Surr: DCB	0.0415		mg/kg wet	0.0332		125	30-105			S
Surr: TCMX	0.0233		mg/kg wet	0.0332		70.0	30-105			
_CS (BCJ0217-BS2)				Prepared	d & Analyzed	d: 10/07/2	019			
PCB as Aroclor 1016	0.146 mg/kg wet	0.100	mg/kg wet	0.164	mg/kg wet	89.0	60-140			
PCB as Aroclor 1260	0.167 mg/kg wet	0.100	mg/kg wet	0.164	mg/kg wet	102	60-140			
Surr: DCB	0.0393		mg/kg wet	0.0328	mg/kg wet	120	30-105			S
Surr: TCMX	0.0213		mg/kg wet	0.0328	mg/kg wet	65.0	30-105			
Matrix Spike (BCJ0217-MS2)	Sour	ce: 19J018	4-02	Prepared	d & Analyzed	d: 10/07/2	019			
PCB as Aroclor 1016	0.189 mg/kg dry	0.111	mg/kg dry	0.185	<0.111 mg/kg	dry 102	60-140			
PCB as Aroclor 1260	0.202 mg/kg dry	0.111	mg/kg dry	0.185	<0.111 mg/kg	dry 109	60-140			
Surr: DCB	0.0426		mg/kg dry	0.0371	mg/kg dry	115	30-105			
Surr: TCMX	0.0315		mg/kg dry	0.0371	mg/kg dry	85.0	30-105			
Matrix Spike Dup (BCJ0217-MSD2)	Sour	ce: 19J018	4-02	Prepared	d & Analyzed	d: 10/07/2	019			
PCB as Aroclor 1016	0.189 mg/kg dry	0.112	mg/kg dry	0.187	<0.112 mg/kg	dry101	60-140	0.00322	20	
PCB as Aroclor 1260	0.208 mg/kg dry	0.112	mg/kg dry	0.187	<0.112 mg/kg	dry 111	60-140	2.80	20	
Surr: DCB	0.0431		mg/kg dry	0.0374	mg/kg dry	115	30-105			S
Surr: TCMX	0.0300		mg/kg dry	0.0374	mg/kg dry	80.0	30-105			



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Wet Chemistry Analysis - Quality Control

Air Water & Soil Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Batch BCJ0276 - No Prep Wet Chem										
Blank (BCJ0276-BLK1)				Prepared	& Analyze	d 10/08/20	019			
Percent Solids	100 %	0.10	%							
Duplicate (BCJ0276-DUP1)	Sou	rce: 19J022	9-02	Prepared	& Analyze	d: 10/08/20	019			
Percent Solids	88.5 %	0.10	%	8	88.9 %			0.385	20	
Duplicate (BCJ0276-DUP2)	Sou	rce: 19J027	6-01	Prepared	& Analyze	d: 10/08/20	019			
Percent Solids	86.1 %	0.10	%	8	84.6 %			1.74	20	



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Certified Analyses included in this Report

Analyte Certifications

SW8082A in Solids	
PCB as Aroclor 1016	VELAP,NC
PCB as Aroclor 1221	VELAP,NC
PCB as Aroclor 1232	VELAP,NC
PCB as Aroclor 1242	VELAP,NC
PCB as Aroclor 1248	VELAP,NC
PCB as Aroclor 1254	VELAP,NC
PCB as Aroclor 1260	VELAP,NC

Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2019
NC	North Carolina DENR	495	12/31/2019
VELAP	NELAC-Virginia Certificate #10503	460021	06/14/2020
WVDEP	West Virginia DEP	350	11/30/2019



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Summary of Data Qualifiers

DS Surrogate concentration reflects a dilution factor.

S Surrogate recovery was outside acceptance criteria

RPD Relative Percent Difference

Qual Qualifers

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

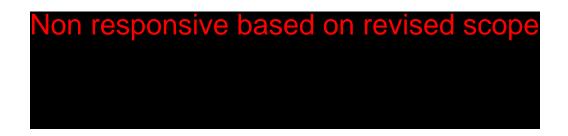
TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

Non responsive based on revised scope

Chain of Custody Effective: Nov 15, 2018

							CHAI	N OF	CUS	то	DY								PAGE 1 OF 1
COMPANY <mark>Non responsive b</mark> a	ased	on	revi	sed sco	pe INV	OICE TO	Non re	espons	sive ba	sed	on re	vised s	cope	ROJEC	T NAM	E/Quo	te #:		
CONTACT					INV	OICE CO								TE NA	ME: S	ni lov	Chu	rch	RI Site
ADDRESS					INV	OICE AD									T NUN				
PHONE #:					INV	OICE PH								0.#:	64	073			***************************************
FAX #:			E	MAIL Nor	n respo	nsive base								etreatr	nent Pr	ogram			
Is sample for compliance report	ing?		YES	(NO Re	gulator	y State:		Is sam	ple fro	m a	chlori	nated s	upply	? Y	ES N	10	PWS I	.D. #:	
SAMPLER NAME (PRINT	sponsiv	e ba	sed on	revised sco	SA	MPLER S	IGNAT	URI		e base	ed on revis	sea scope	Τι	ırn Aro	und Tir	ne: Cii	rcle 10	5 D	ays or Day(s)
Matrix Codes: WW=Waste Water/Storm W	ater G	W=G	round	Water DW=	Drinking	Water S=So	il/Solids	OR=Orga	anic A=A	ir W	P=Wipe	OT=Othe	r						COMMENTS
CLIENT SAMPLE I.D.		550	(Dissolved Metals)	Start Date	Start Time	Date	omposite Stop	100	les)	ainers	(14	AN	ALYS	IS / (PI	RESER	VĄTIV	Œ)		Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol
	Grab	Composite	Field Filtered (D	Composite Starl	Composite Starl	Grab Date or Composite Stop	Grab Time or Composite Time	Time Preserved	Matrix (See Codes)	Number of Containers	PCB Gra								PLEASE NOTE PRESERVATIVE(S). INTERFERENCE CHECKS or PUMP RATE (L/min)
1) W-Grale	×			\		10/4/19	12:00		S	2	×								
2) E-Grah	x					1	1		5	1	X								
3)	+		+	-/						\vdash				-	-				
4)	+	_	+				-			Н					-	-			
5)	-	-	+				_			\vdash				-	-		L		
7)	+	\vdash	+												-		\vdash		
8)			\vdash							\vdash				-	1				
9)																			
10)	+		\vdash																
Non responsive based on revised scope	DAT	101	TIME 15°C	7 RECEIVE	ve based on rev	local scope	4119	DATE /		Leve	el III				Y The ed and int		271 No ed on r	25050499	LER TEMP 1.3 °C Received on ice? (Y) N)
RELINQUISHED:	DAT	Ε/	TIME	RECEIVE	ED:			DATE /	TIME	Leve	ei iV	Ц	Re	cd: 10	0/04/2	019	Due: 1	10/09/	/2019



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Sample Conditions Checklist

Samples Received at:	1.30°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes